

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020924\
 Data File : VL041058.D
 Acq On : 9 Feb 2024 15:06
 Operator : SY/MD
 Sample : P1420-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3DUP

Quant Time: Feb 12 00:47:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Feb 12 00:40:04 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

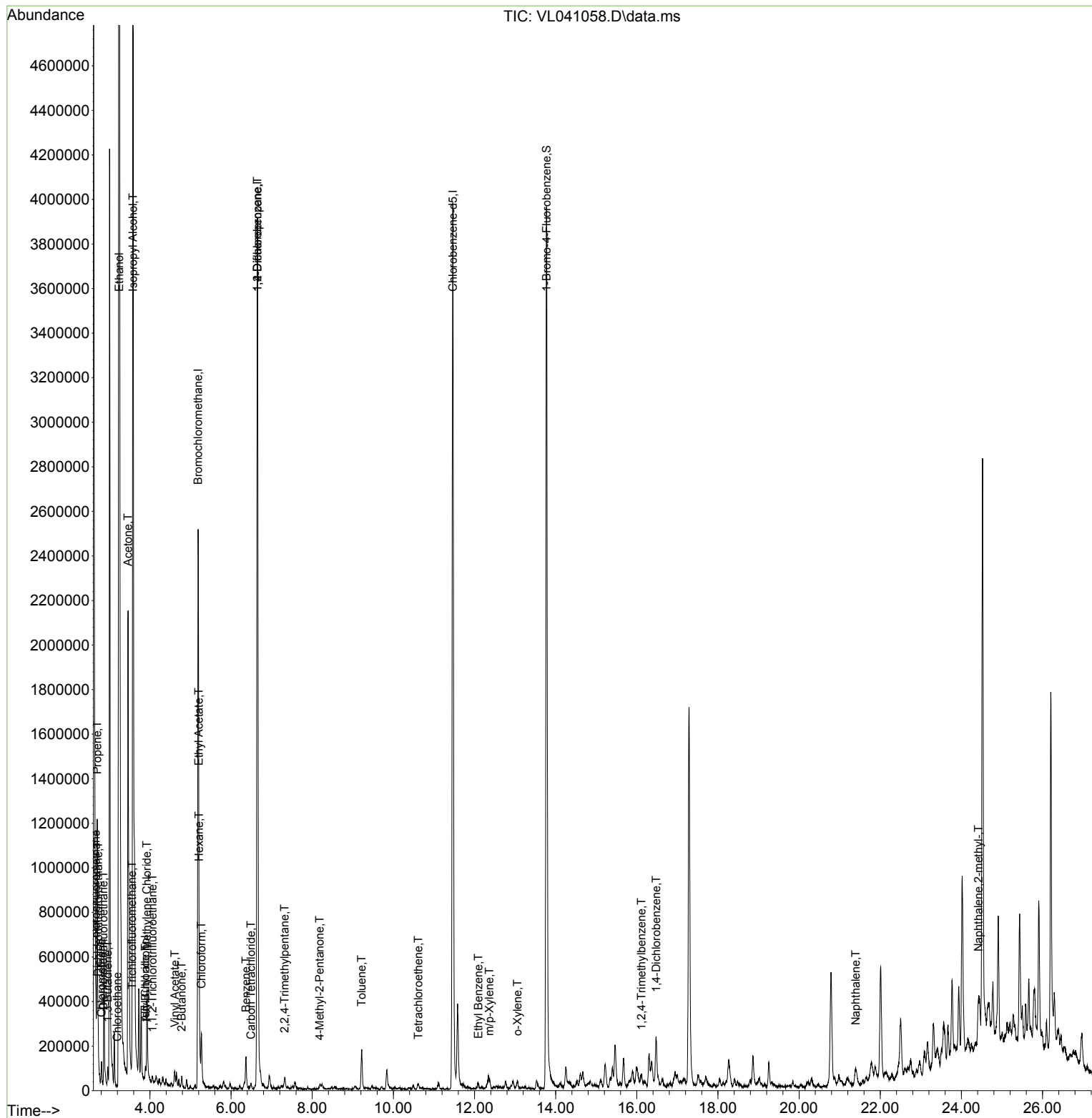
Internal Standards						
1) Bromochloromethane	5.188	49	1122077	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.648	114	3065263	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2702445	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	2035500	9.972	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	107925	0.435	ppbv	98
3) Chlorodifluoromethane	2.668	51	72903	0.386	ppbv #	86
4) Chloromethane	2.809	50	80894	1.144	ppbv	98
7) Chloroethane	3.192	64	1043	0.042	ppbv	89
8) Dichlorotetrafluoroethane	2.854	85	4527	0.024	ppbv #	79
9) Propene	2.700	41	228216	3.687	ppbv #	63
11) Trichlorofluoromethane	3.555	101	39369	0.197	ppbv	91
12) 1,1,2-Trichlorotrifluoro...	4.063	101	8845	0.061	ppbv	93
13) Ethanol	3.240	45	10146497	687.735	ppbv	96
15) Acetone	3.462	43	2194130	15.291	ppbv	98
16) 1,3-Butadiene	2.960	39	22399	0.326	ppbv #	50
17) tert-Butyl alcohol	3.889	59	33280	0.283	ppbv #	81
19) Isopropyl Alcohol	3.584	45	5405364	65.077	ppbv #	96
20) Methylene Chloride	3.925	84	126663	2.294	ppbv	93
21) Allyl Chloride	3.889	41	9057	0.104	ppbv #	18
23) Vinyl Acetate	4.613	43	54129	0.366	ppbv #	77
25) Ethyl Acetate	5.205	43	103886	0.399	ppbv #	91
26) Hexane	5.211	57	112624	1.016	ppbv #	49
29) Chloroform	5.269	83	146895	0.747	ppbv	91
34) 2-Butanone	4.783	43	53040	0.363	ppbv	92
35) Carbon Tetrachloride	6.491	117	9509	0.047	ppbv #	88
36) Benzene	6.368	78	114486	0.452	ppbv #	90
39) 1,2-Dichloropropane	6.648	63	719129	7.211	ppbv #	24
44) 2,2,4-Trimethylpentane	7.320	57	14889	0.035	ppbv #	1
50) 4-Methyl-2-Pentanone	8.185	43	7815	0.030	ppbv #	40
52) Tetrachloroethene	10.619	164	1723	0.020	ppbv #	1
53) Toluene	9.217	91	123317	0.445	ppbv	99
58) Ethyl Benzene	12.095	91	8123	0.022	ppbv #	81
59) m/p-Xylene	12.362	91	15777	0.050	ppbv #	32
60) o-Xylene	13.056	91	13714	0.045	ppbv #	62
74) 1,2,4-Trimethylbenzene	16.114	105	10416	0.031	ppbv #	59
76) 1,4-Dichlorobenzene	16.477	146	7701	0.040	ppbv #	22
79) Naphthalene	21.400	128	4966	0.026	ppbv #	80
80) Naphthalene,2-methyl-	24.426	142	858	0.025	ppbv #	24

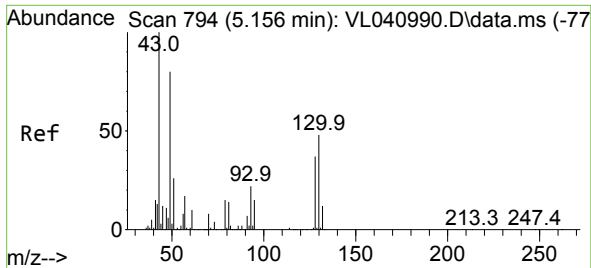
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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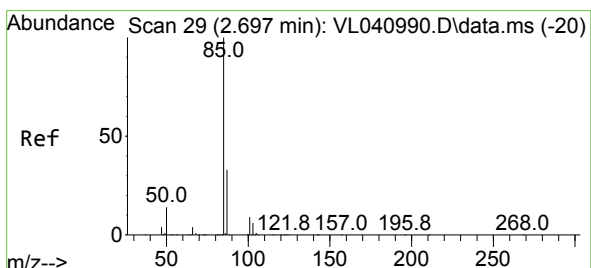
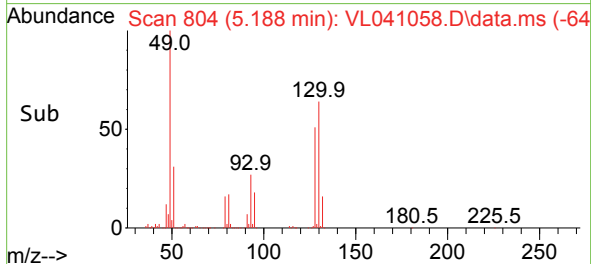
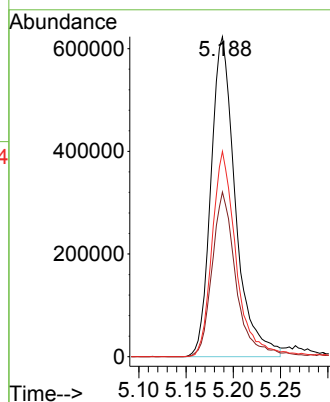
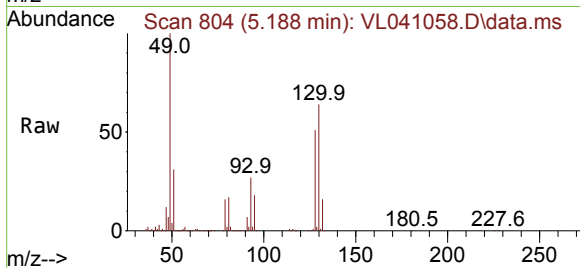




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.188 min Scan# 80
 Delta R.T. 0.012 min
 Lab File: VL041058.D
 Acq: 9 Feb 2024 15:06

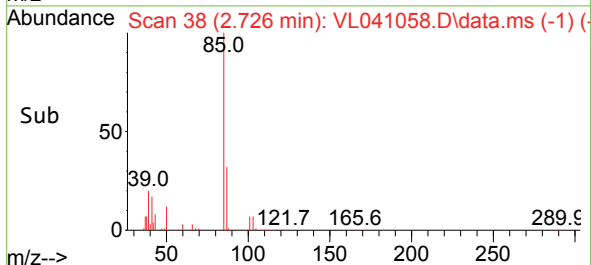
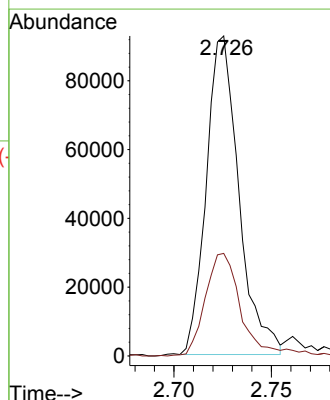
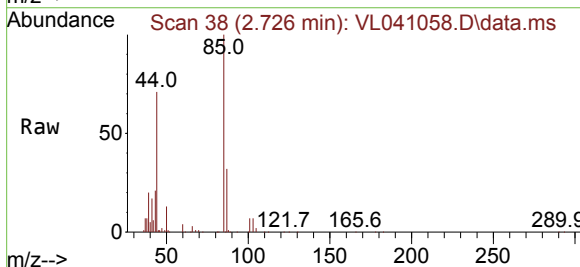
Instrument :
 MSVOA_L
 ClientSampleId :
 IA3DUP

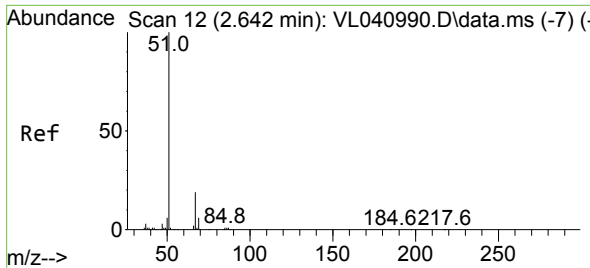
Tgt Ion: 49 Resp: 1122077
 Ion Ratio Lower Upper
 49 100
 128 51.0 23.9 71.7
 130 63.9 31.1 93.5



#2
 Dichlorodifluoromethane
 Concen: 0.435 ppbv
 RT: 2.726 min Scan# 38
 Delta R.T. 0.010 min
 Lab File: VL041058.D
 Acq: 9 Feb 2024 15:06

Tgt Ion: 85 Resp: 107925
 Ion Ratio Lower Upper
 85 100
 87 31.8 26.3 39.5

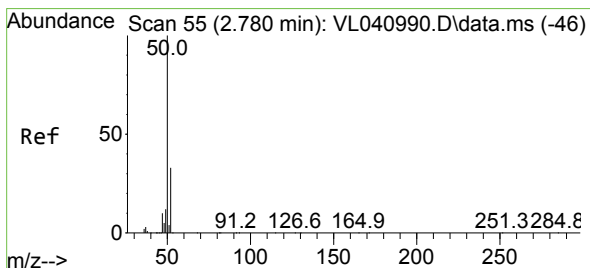
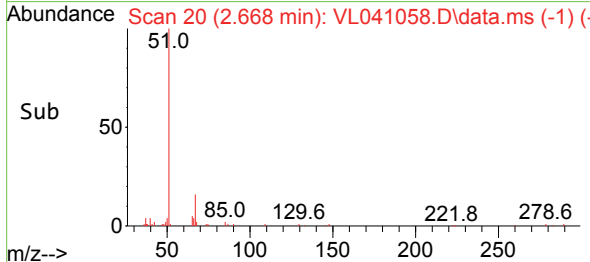
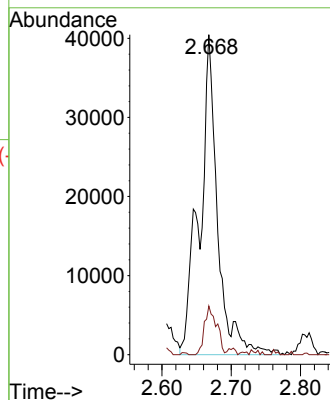
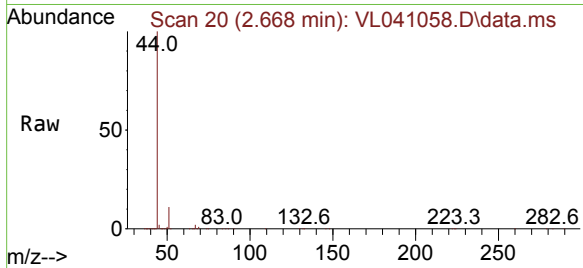




#3
Chlorodifluoromethane
Concen: 0.386 ppbv
RT: 2.668 min Scan# 20
Delta R.T. 0.006 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

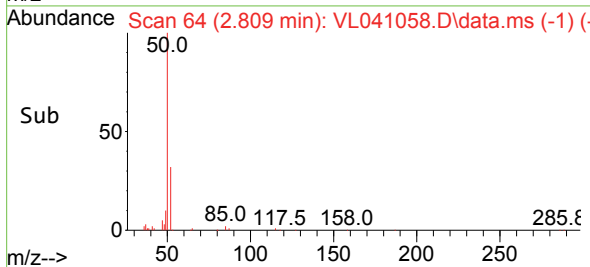
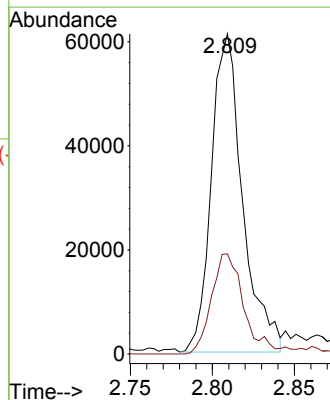
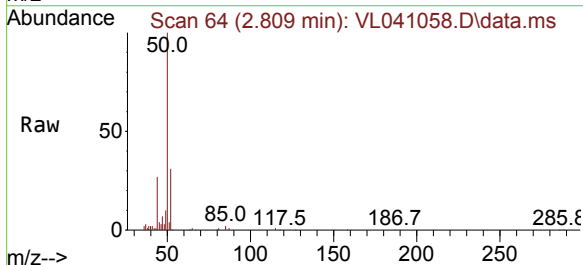
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

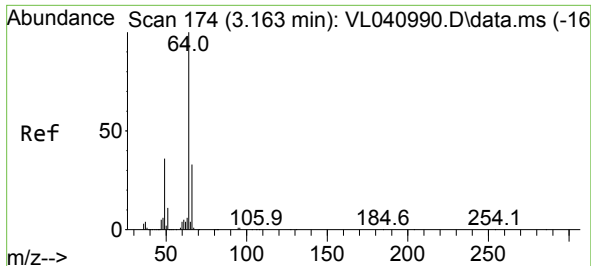
Tgt Ion: 51 Resp: 72903
Ion Ratio Lower Upper
51 100
67 12.0 14.8 22.2#



#4
Chloromethane
Concen: 1.144 ppbv
RT: 2.809 min Scan# 64
Delta R.T. 0.013 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion: 50 Resp: 80894
Ion Ratio Lower Upper
50 100
52 31.7 26.2 39.4

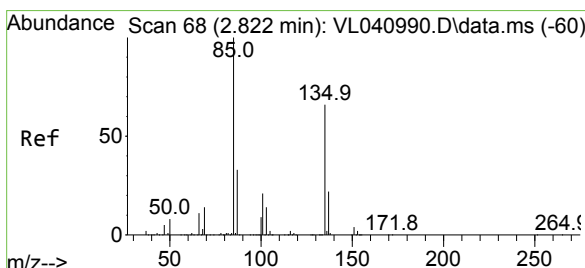
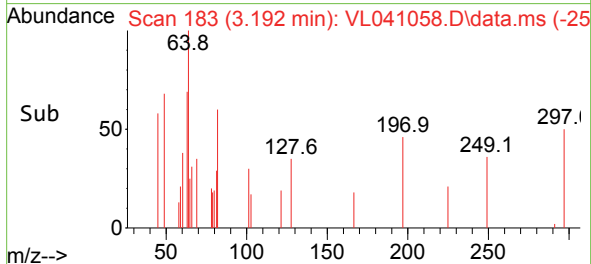
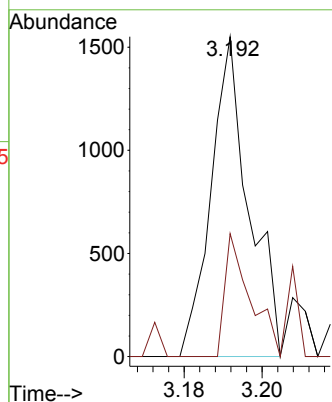
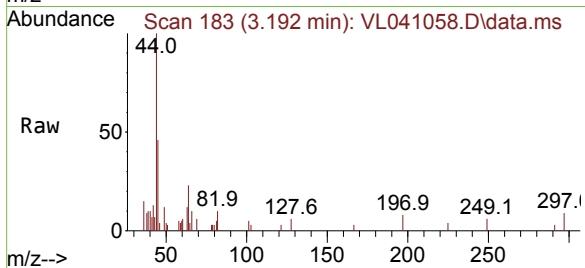




#7
Chloroethane
Concen: 0.042 ppbv
RT: 3.192 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

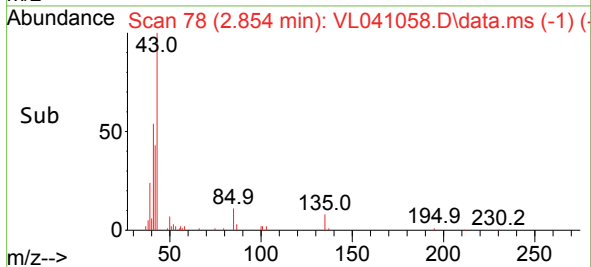
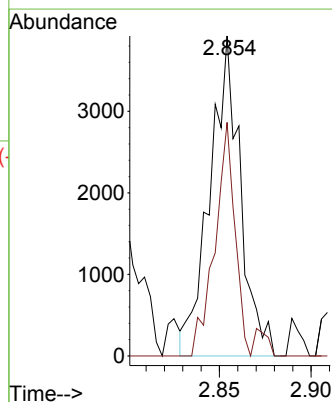
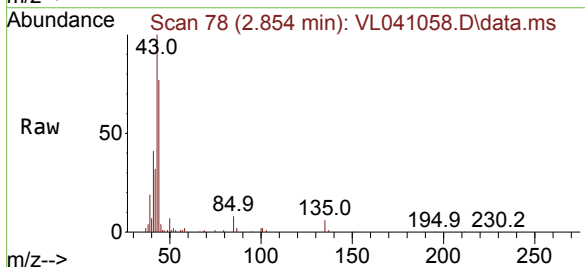
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

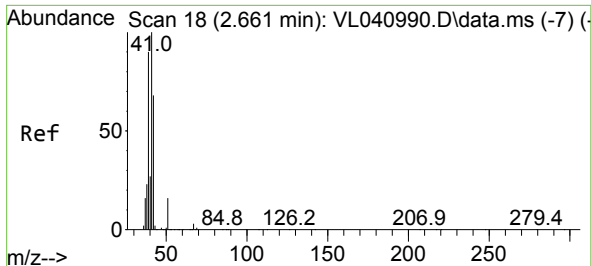
Tgt Ion: 64 Resp: 1043
Ion Ratio Lower Upper
64 100
66 38.4 26.0 39.0



#8
Dichlorotetrafluoroethane
Concen: 0.024 ppbv
RT: 2.854 min Scan# 78
Delta R.T. 0.013 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion: 85 Resp: 4527
Ion Ratio Lower Upper
85 100
135 51.7 55.0 82.6#

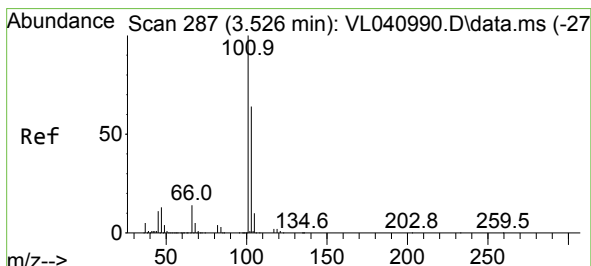
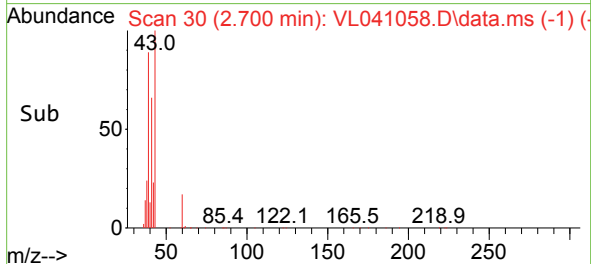
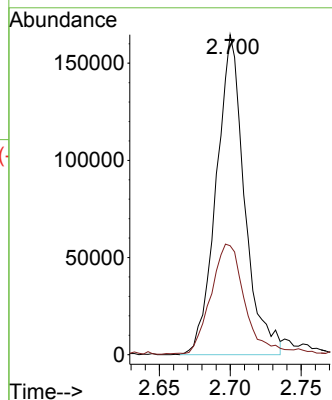
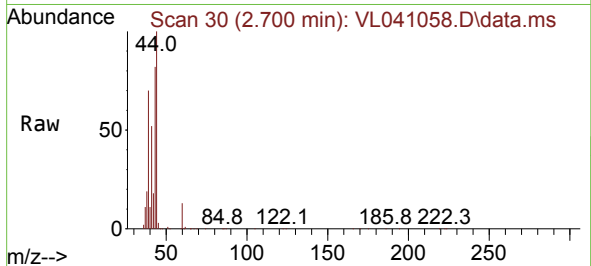




#9
Propene
Concen: 3.687 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.022 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

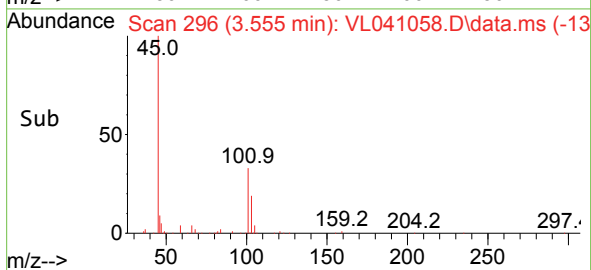
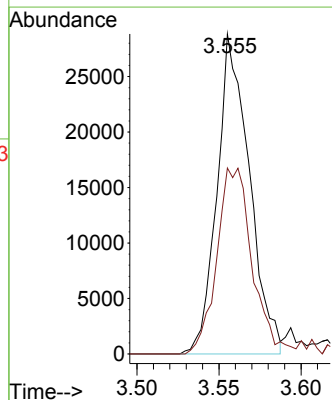
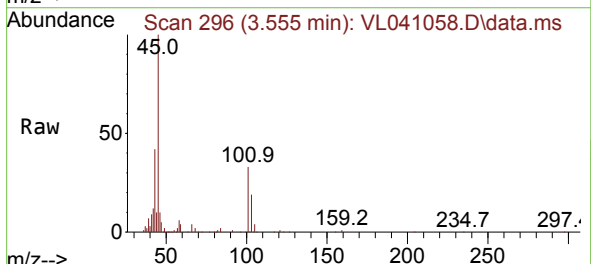
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

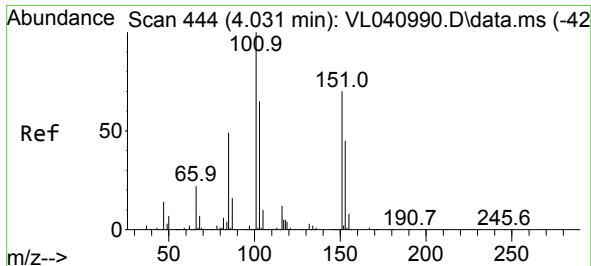
Tgt Ion: 41 Resp: 228216
Ion Ratio Lower Upper
41 100
42 42.7 59.0 88.4#



#11
Trichlorofluoromethane
Concen: 0.197 ppbv
RT: 3.555 min Scan# 296
Delta R.T. 0.006 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion:101 Resp: 39369
Ion Ratio Lower Upper
101 100
103 57.3 51.4 77.2

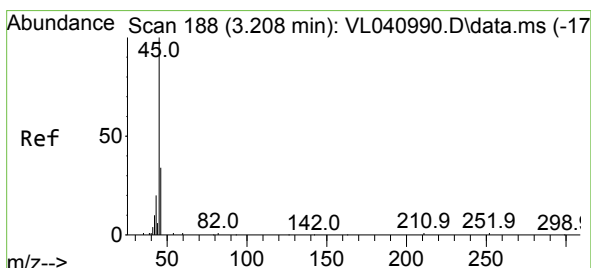
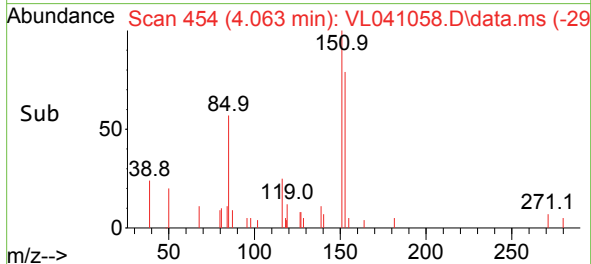
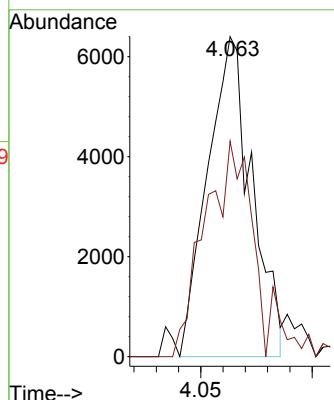
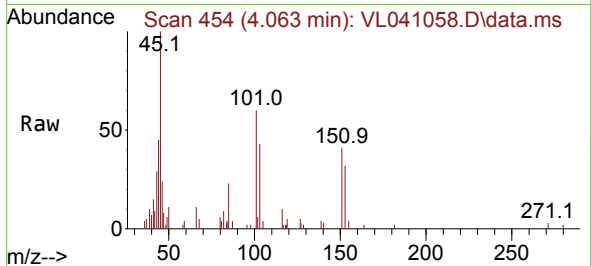




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.061 ppbv
RT: 4.063 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

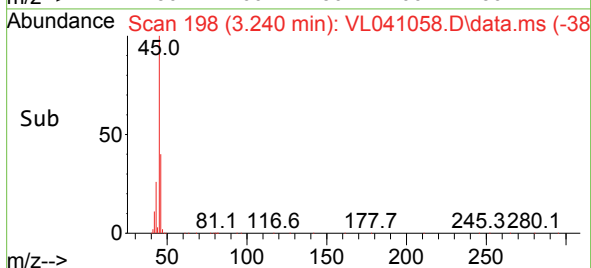
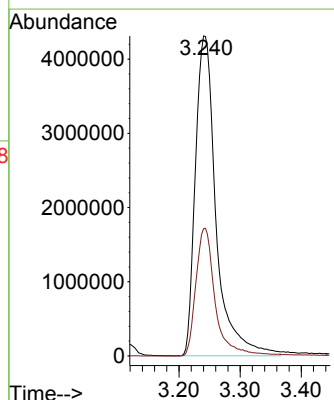
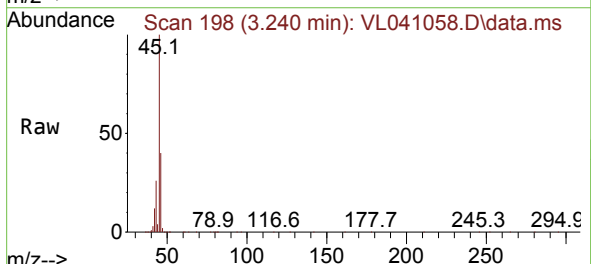
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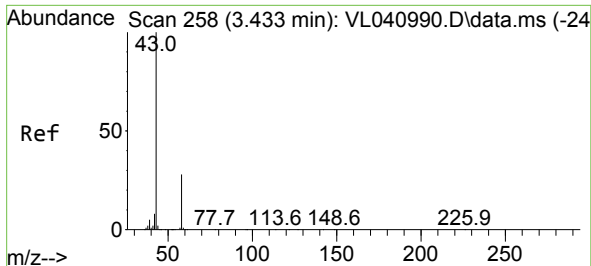
Tgt Ion:101 Resp: 8845
Ion Ratio Lower Upper
101 100
151 76.7 56.6 85.0



#13
Ethanol
Concen: 687.735 ppbv
RT: 3.240 min Scan# 198
Delta R.T. 0.016 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion: 45 Resp:10146497
Ion Ratio Lower Upper
45 100
46 37.9 16.2 64.8





#15

Acetone

Concen: 15.291 ppbv

RT: 3.462 min Scan# 2

Delta R.T. 0.010 min

Lab File: VL041058.D

Acq: 9 Feb 2024 15:06

Instrument :

MSVOA_L

ClientSampleId :

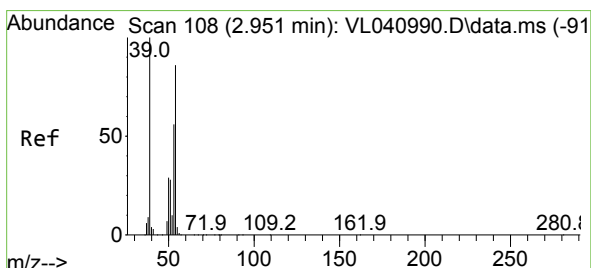
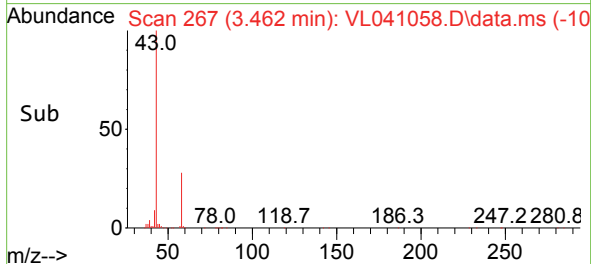
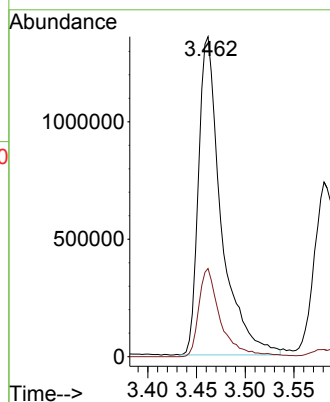
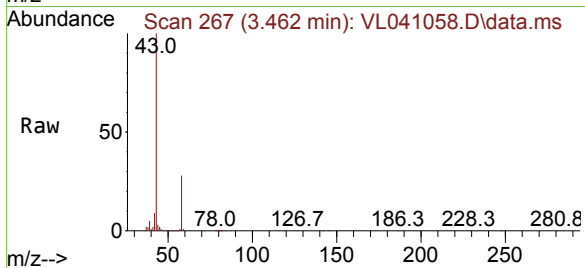
IA3DUP

Tgt Ion: 43 Resp: 2194130

Ion Ratio Lower Upper

43 100

58 26.6 22.2 33.2



#16

1,3-Butadiene

Concen: 0.326 ppbv

RT: 2.960 min Scan# 111

Delta R.T. -0.010 min

Lab File: VL041058.D

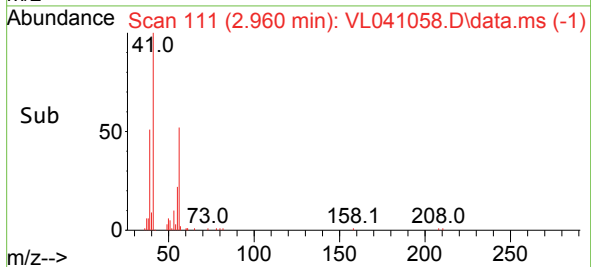
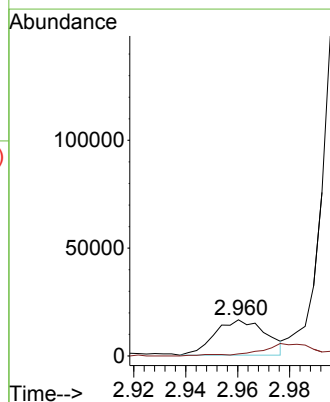
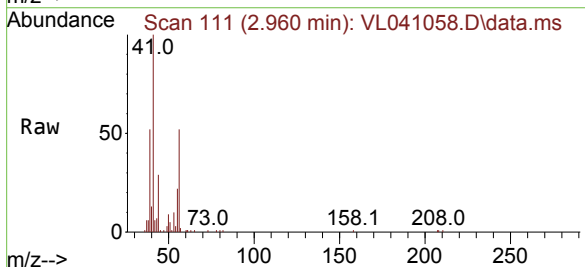
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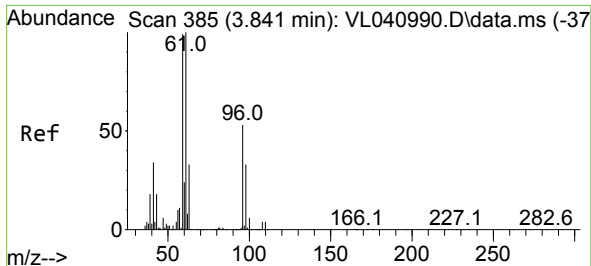
Tgt Ion: 39 Resp: 22399

Ion Ratio Lower Upper

39 100

54 34.6 62.7 94.1#





#17

tert-Butyl alcohol

Concen: 0.283 ppbv

RT: 3.889 min Scan# 40

Delta R.T. 0.026 min

Lab File: VL041058.D

Acq: 9 Feb 2024 15:06

Instrument :

MSVOA_L

ClientSampleId :

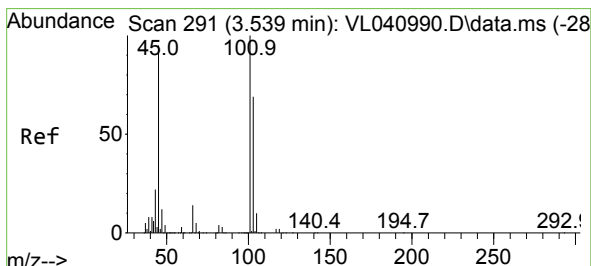
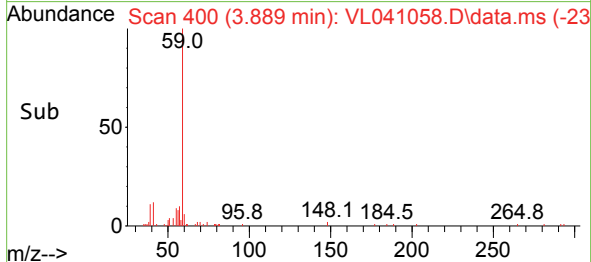
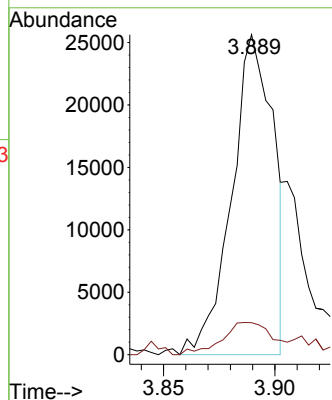
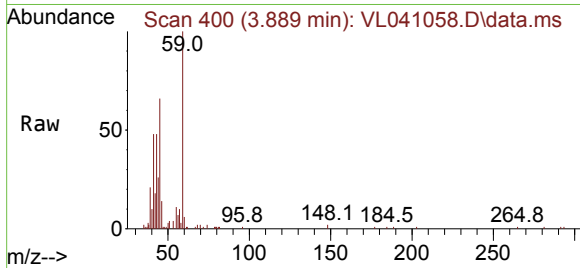
IA3DUP

Tgt Ion: 59 Resp: 33280

Ion Ratio Lower Upper

59 100

57 17.9 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 65.077 ppbv

RT: 3.584 min Scan# 305

Delta R.T. 0.022 min

Lab File: VL041058.D

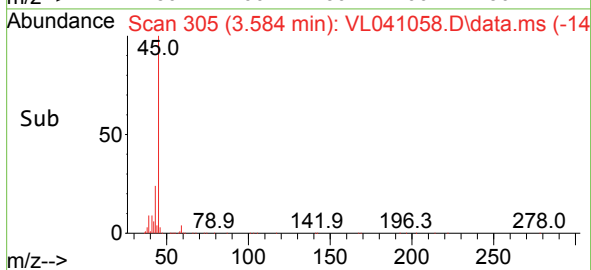
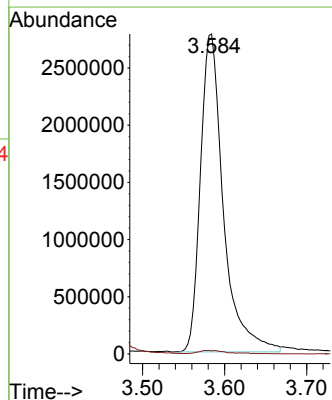
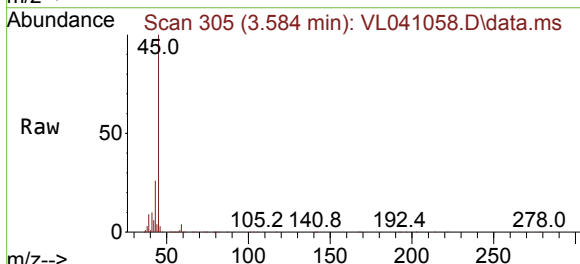
Acq: 9 Feb 2024 15:06

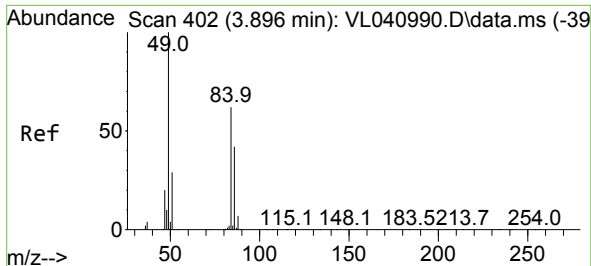
Tgt Ion: 45 Resp: 5405364

Ion Ratio Lower Upper

45 100

58 1.5 2.2 3.4#

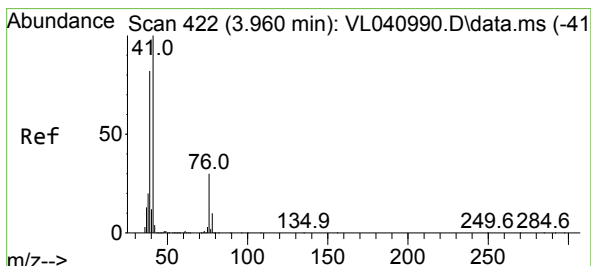
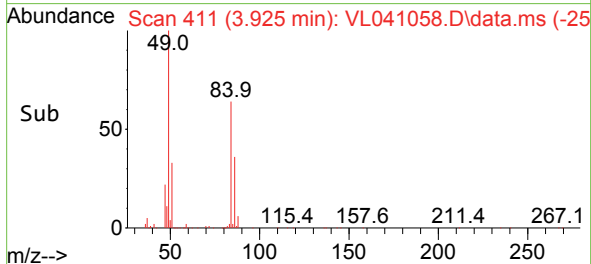
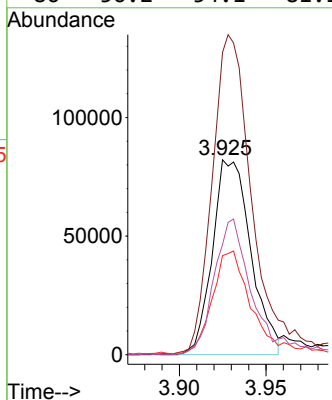
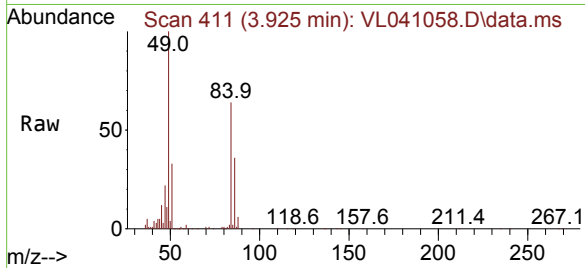




#20
Methylene Chloride
Concen: 2.294 ppbv
RT: 3.925 min Scan# 411
Delta R.T. 0.006 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

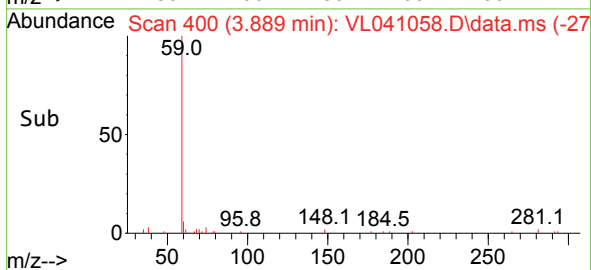
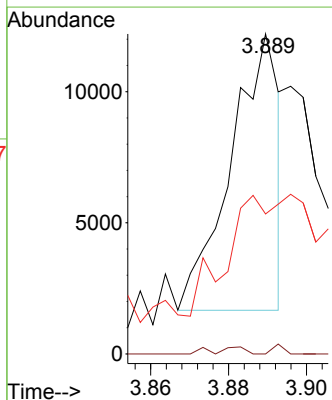
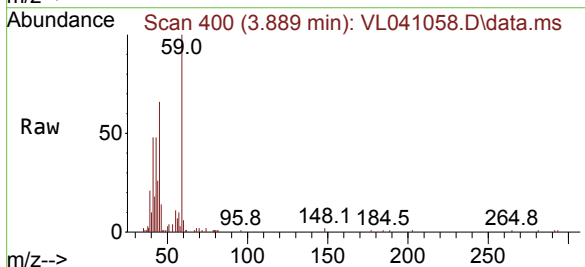
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

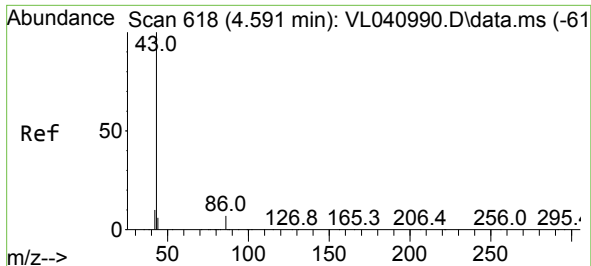
Tgt Ion: 84 Resp: 126663
Ion Ratio Lower Upper
84 100
49 154.1 128.1 192.1
51 49.9 36.5 54.7
86 56.2 54.1 81.1



#21
Allyl Chloride
Concen: 0.104 ppbv
RT: 3.889 min Scan# 400
Delta R.T. -0.090 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion: 41 Resp: 9057
Ion Ratio Lower Upper
41 100
76 2.4 25.0 37.4#
39 0.0 67.0 100.6#



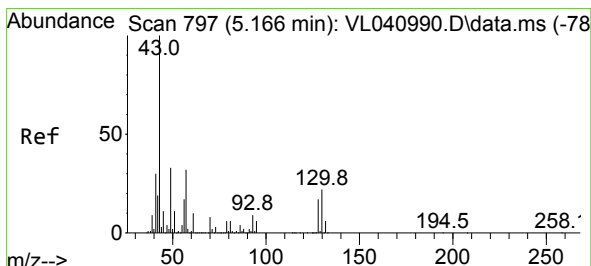
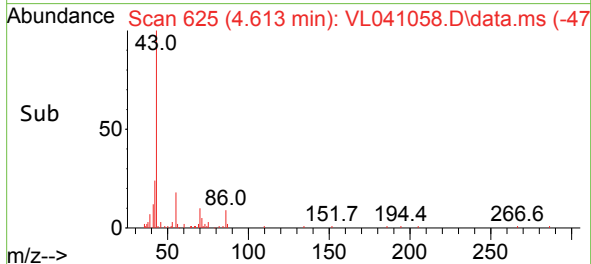
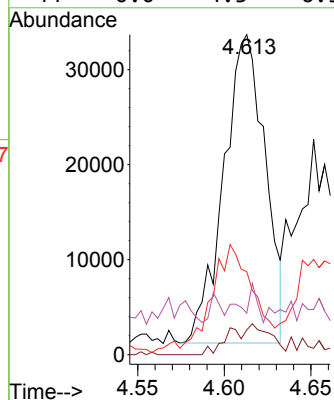
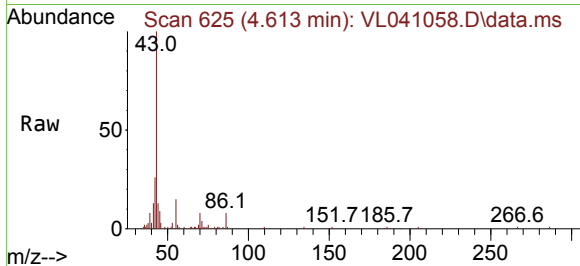


#23
Vinyl Acetate
Concen: 0.366 ppbv
RT: 4.613 min Scan# 618
Delta R.T. -0.000 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

Tgt Ion: 43 Resp: 54129

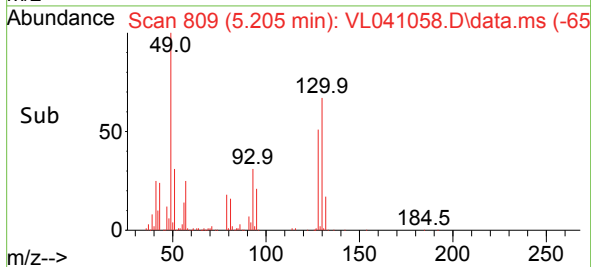
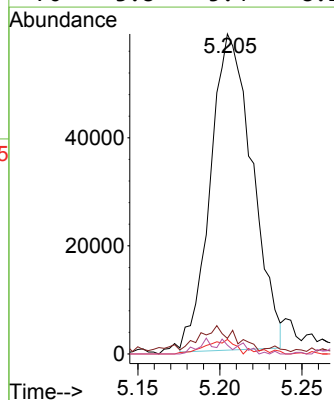
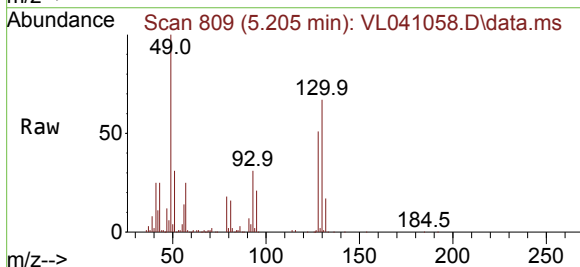
Ion	Ratio	Lower	Upper
43	100		
86	8.0	5.4	8.0
42	24.9	8.6	13.0#
44	0.0	4.3	6.5#

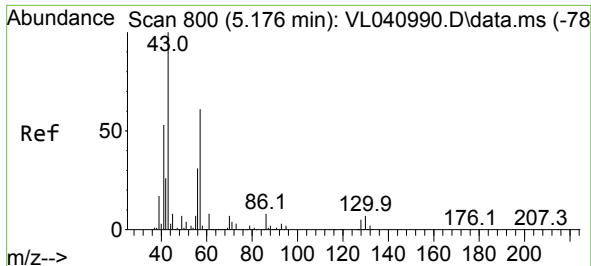


#25
Ethyl Acetate
Concen: 0.399 ppbv
RT: 5.205 min Scan# 809
Delta R.T. 0.013 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion: 43 Resp: 103886

Ion	Ratio	Lower	Upper
43	100		
45	9.4	8.2	12.4
61	3.9	7.9	11.9#
70	3.8	5.4	8.2#

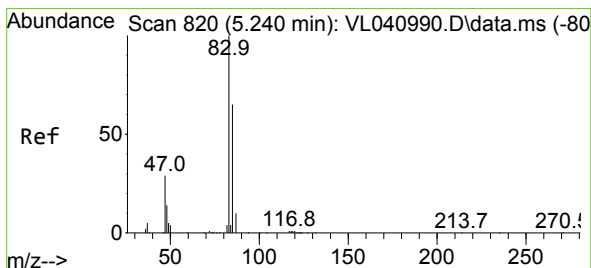
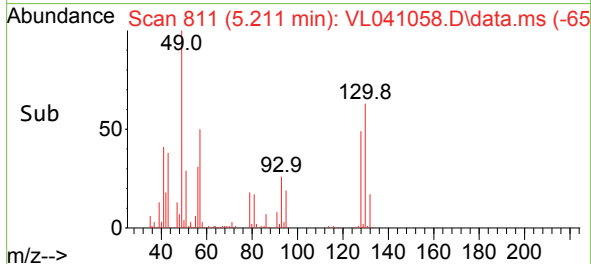
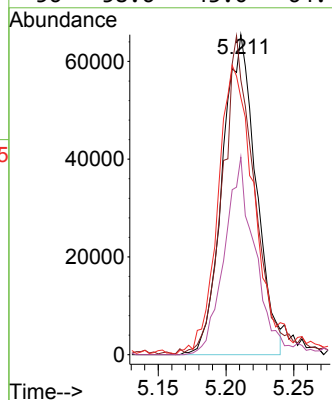
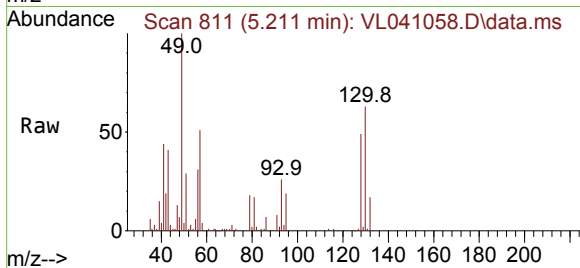




#26
Hexane
Concen: 1.016 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

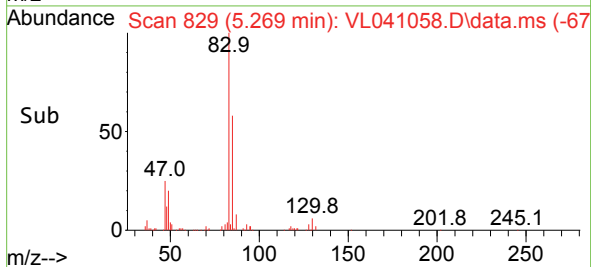
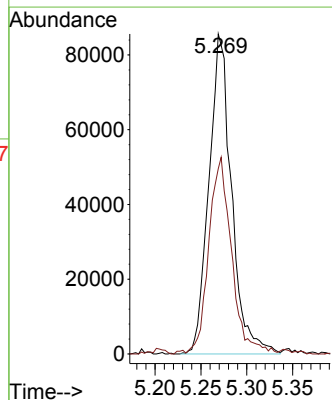
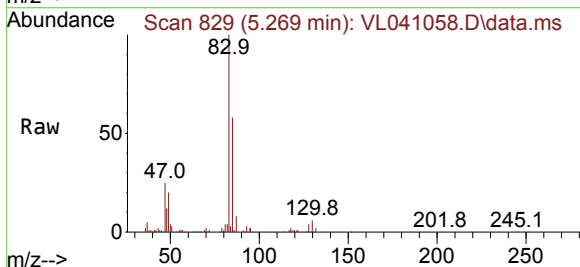
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

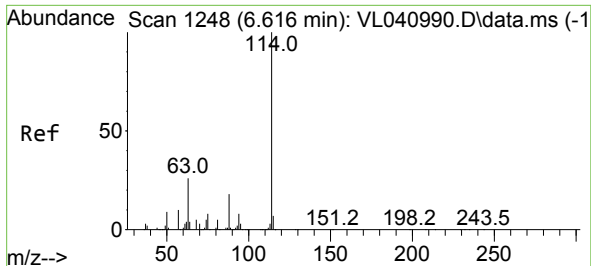
Tgt Ion: 57 Resp: 112624
Ion Ratio Lower Upper
57 100
41 96.8 74.4 111.6
43 103.5 190.6 285.8#
56 58.6 43.0 64.4



#29
Chloroform
Concen: 0.747 ppbv
RT: 5.269 min Scan# 829
Delta R.T. 0.010 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion: 83 Resp: 146895
Ion Ratio Lower Upper
83 100
85 57.0 51.6 77.4

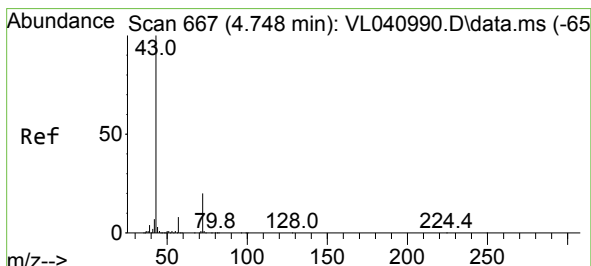
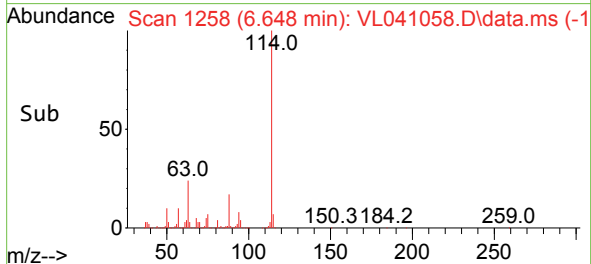
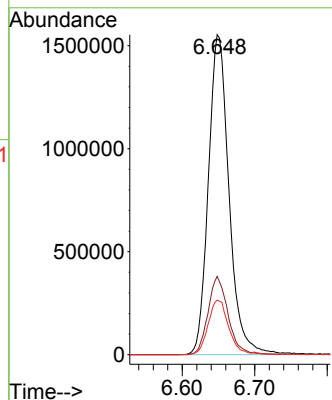
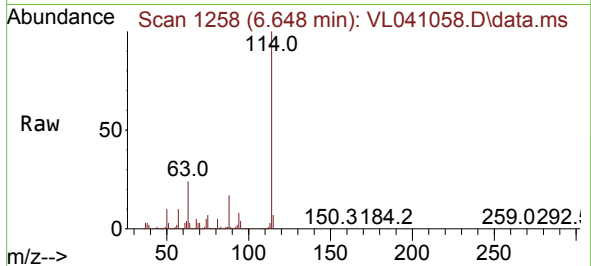




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

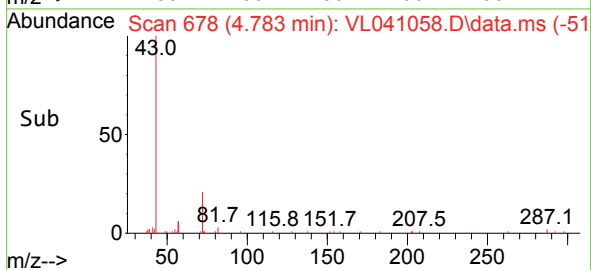
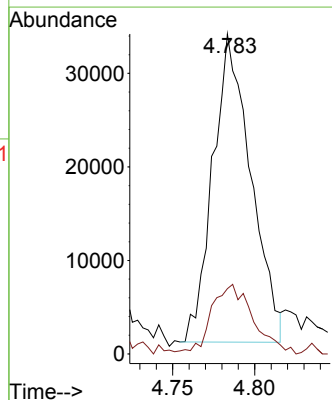
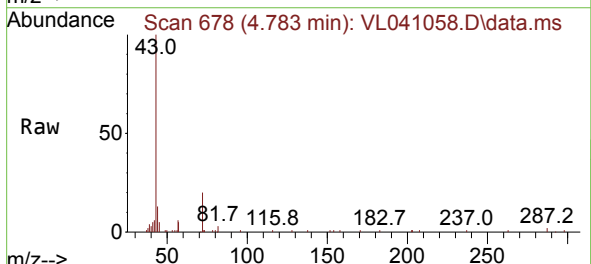
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

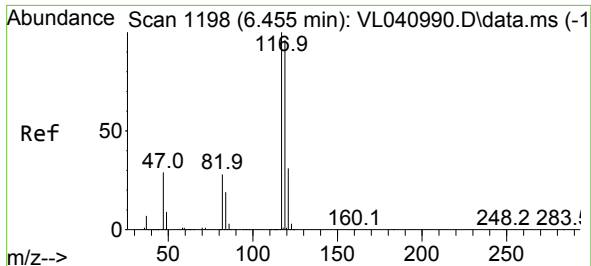
Tgt Ion:114 Resp: 3065263
Ion Ratio Lower Upper
114 100
63 24.1 20.8 31.2
88 17.2 14.3 21.5



#34
2-Butanone
Concen: 0.363 ppbv
RT: 4.783 min Scan# 678
Delta R.T. 0.013 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion: 43 Resp: 53040
Ion Ratio Lower Upper
43 100
72 25.5 17.5 26.3

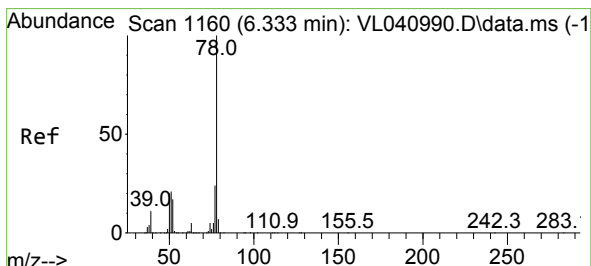
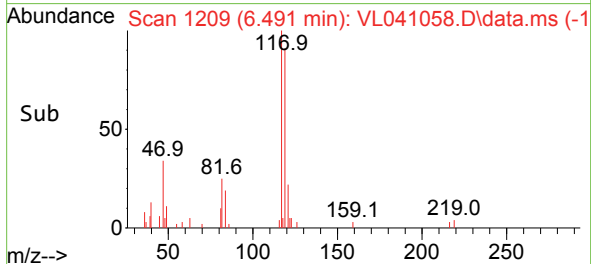
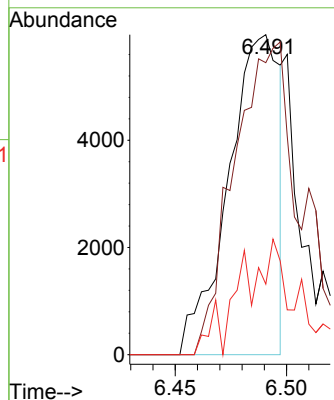
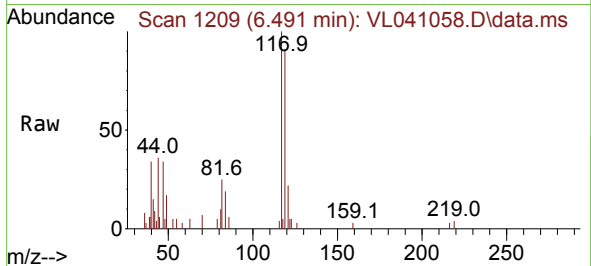




#35
Carbon Tetrachloride
Concen: 0.047 ppbv
RT: 6.491 min Scan# 1170
Delta R.T. 0.010 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

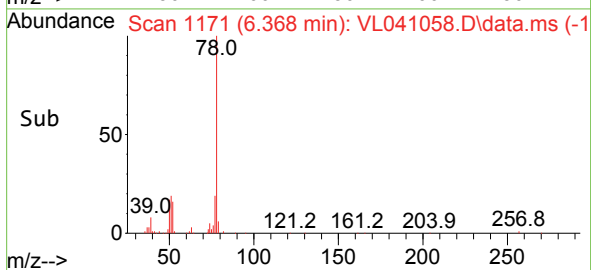
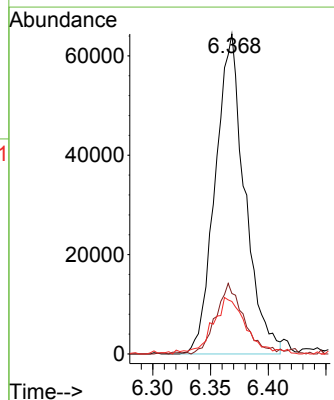
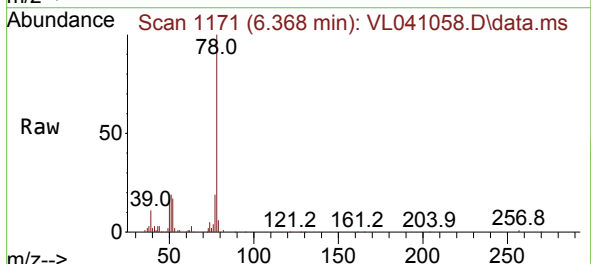
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

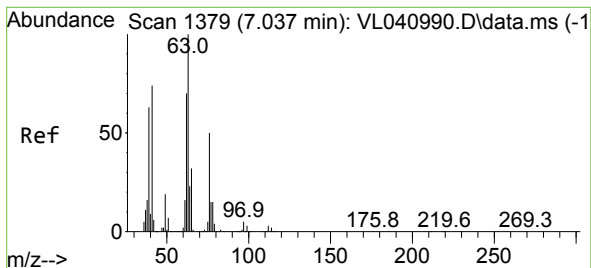
Tgt Ion:117 Resp: 9509
Ion Ratio Lower Upper
117 100
119 86.7 76.9 115.3
121 21.0 24.7 37.1#



#36
Benzene
Concen: 0.452 ppbv
RT: 6.368 min Scan# 1171
Delta R.T. 0.010 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion: 78 Resp: 114486
Ion Ratio Lower Upper
78 100
77 18.4 19.0 28.4#
50 15.7 15.8 23.6#





#39

1,2-Dichloropropane

Concen: 7.211 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.408 min

Lab File: VL041058.D

Acq: 9 Feb 2024 15:06

Instrument :

MSVOA_L

ClientSampleId :

IA3DUP

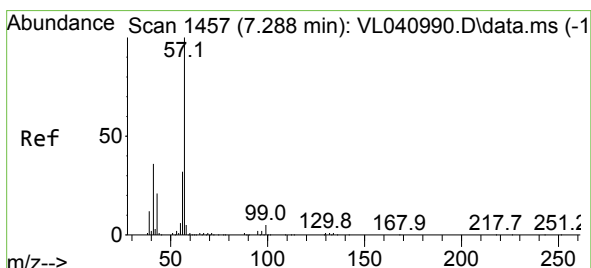
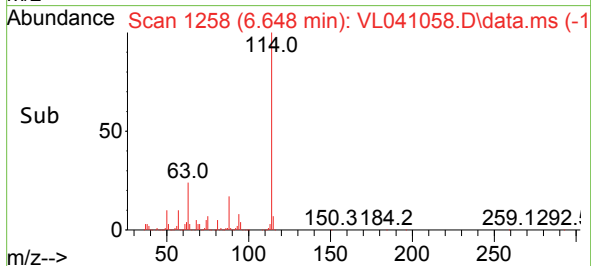
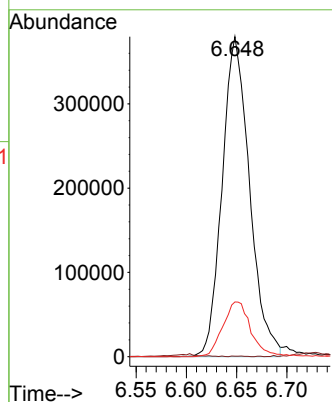
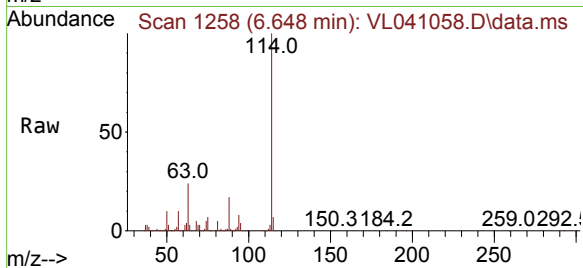
Tgt Ion: 63 Resp: 719129

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 17.1 55.6 83.4#



#44

2,2,4-Trimethylpentane

Concen: 0.035 ppbv

RT: 7.320 min Scan# 1467

Delta R.T. 0.006 min

Lab File: VL041058.D

Acq: 9 Feb 2024 15:06

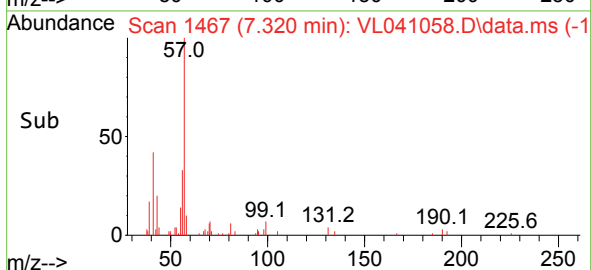
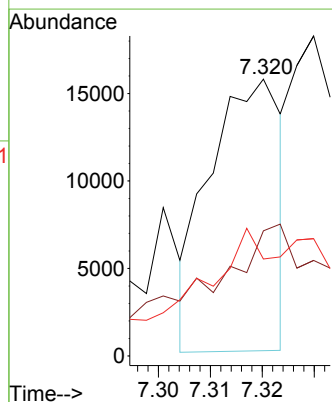
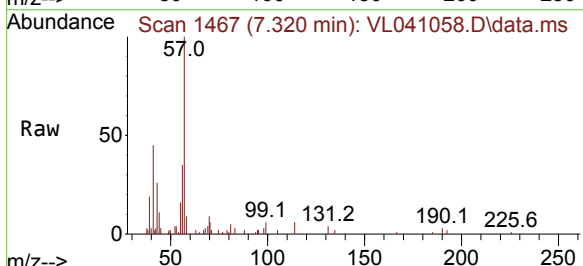
Tgt Ion: 57 Resp: 14889

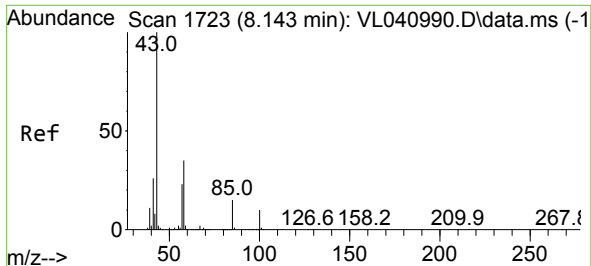
Ion Ratio Lower Upper

57 100

41 118.1 28.6 43.0#

56 116.5 25.2 37.8#

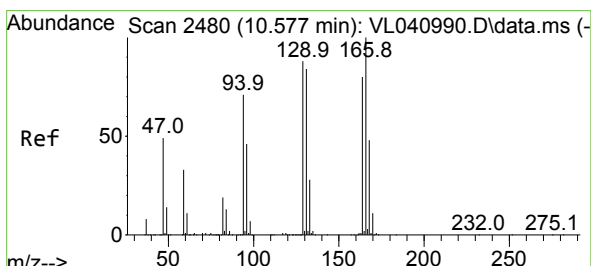
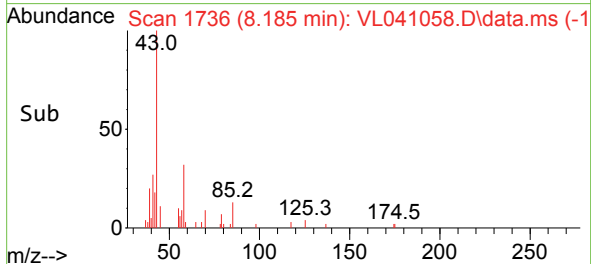
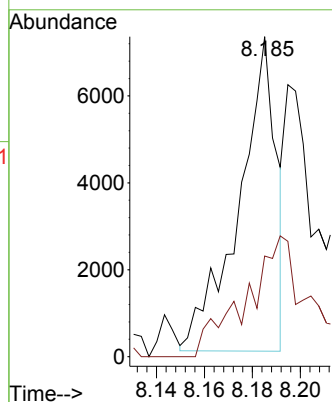
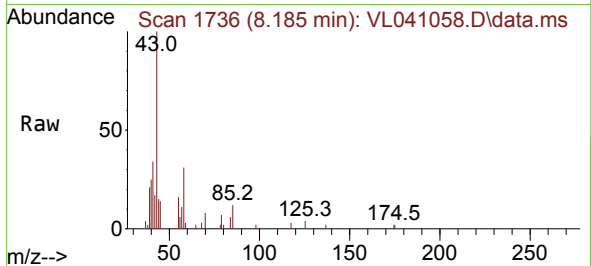




#50
4-Methyl-2-Pentanone
Concen: 0.030 ppbv
RT: 8.185 min Scan# 1736
Delta R.T. 0.019 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

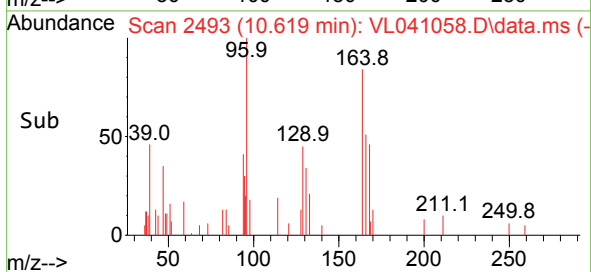
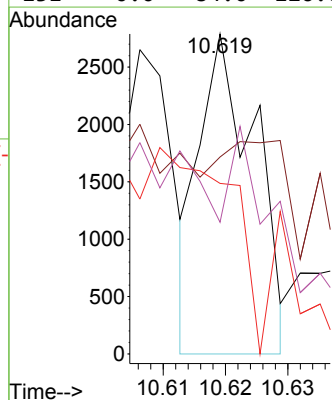
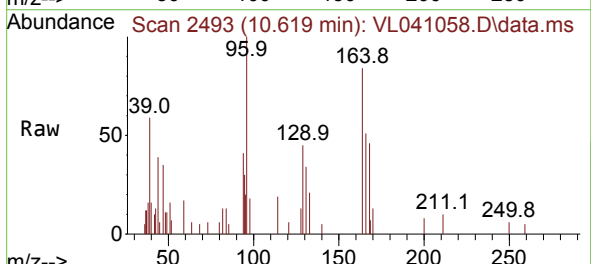
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

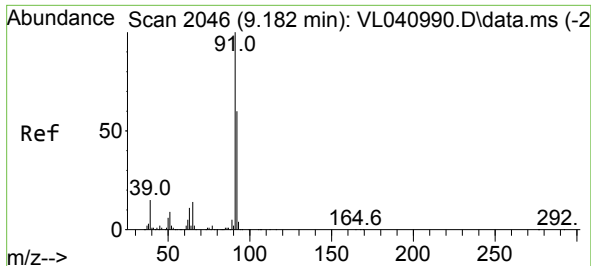
Tgt Ion: 43 Resp: 7815
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#52
Tetrachloroethene
Concen: 0.020 ppbv
RT: 10.619 min Scan# 2493
Delta R.T. 0.016 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion: 164 Resp: 1723
Ion Ratio Lower Upper
164 100
166 0.0 100.2 150.2#
129 10.5 87.9 131.9#
131 0.0 84.0 126.0#

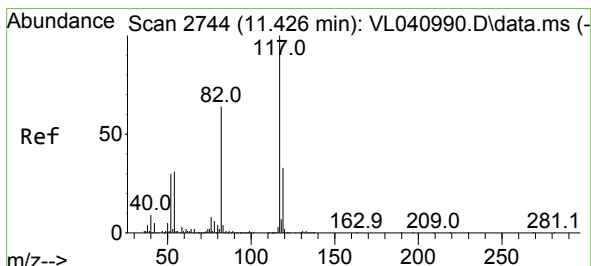
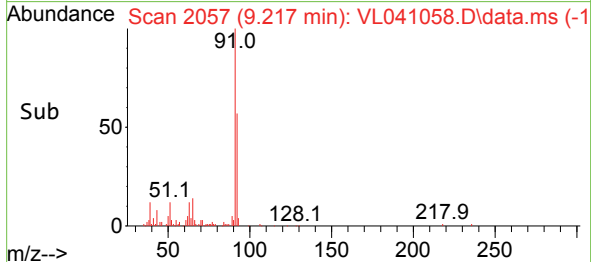
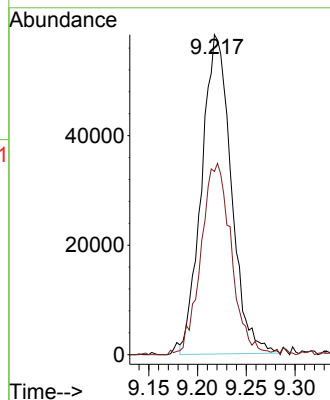
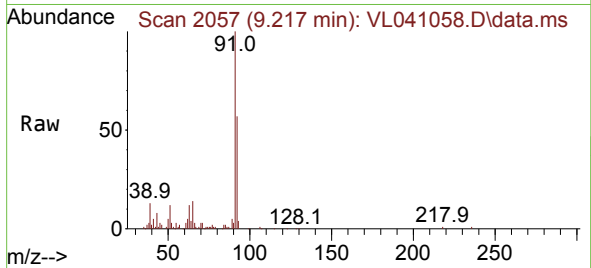




#53
Toluene
Concen: 0.445 ppbv
RT: 9.217 min Scan# 2046
Delta R.T. 0.010 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

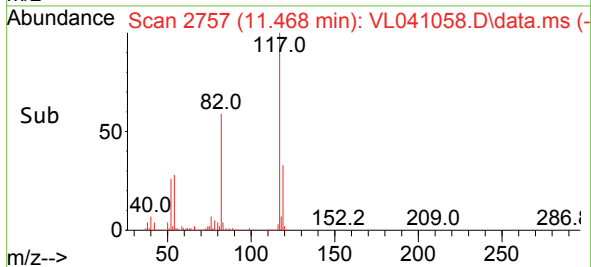
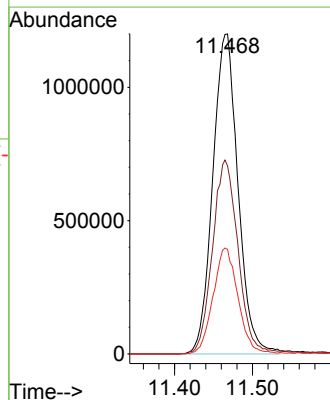
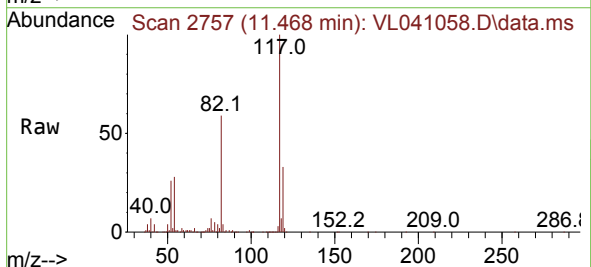
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

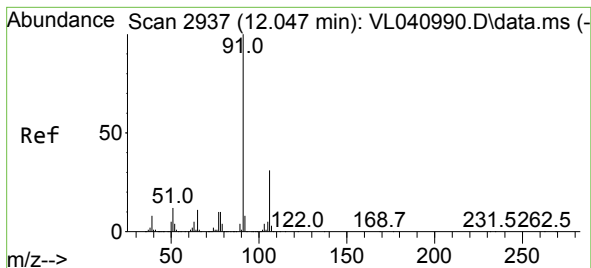
Tgt Ion: 91 Resp: 123317
Ion Ratio Lower Upper
91 100
92 61.5 48.6 72.8



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. 0.016 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion: 117 Resp: 2702445
Ion Ratio Lower Upper
117 100
82 62.7 51.7 77.5
119 32.9 23.8 35.6

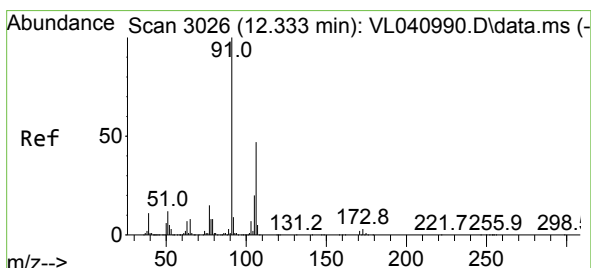
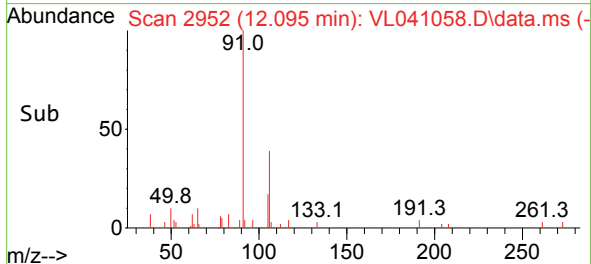
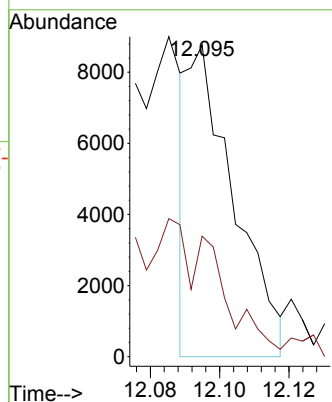
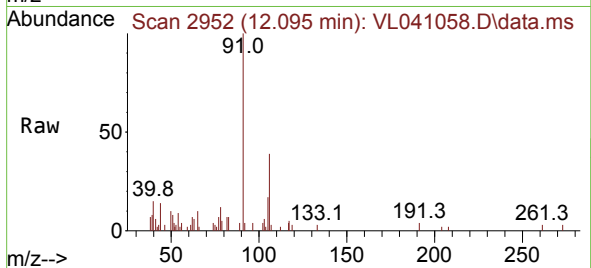




#58
Ethyl Benzene
Concen: 0.022 ppbv
RT: 12.095 min Scan# 2937
Delta R.T. 0.019 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

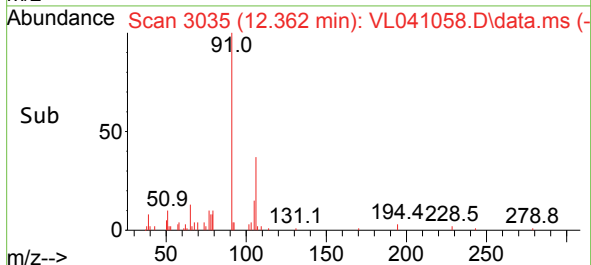
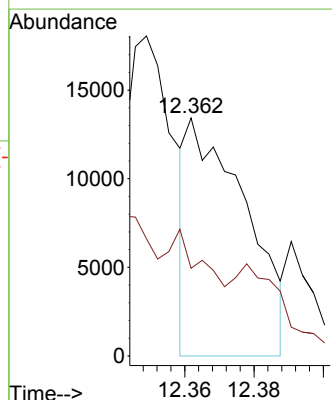
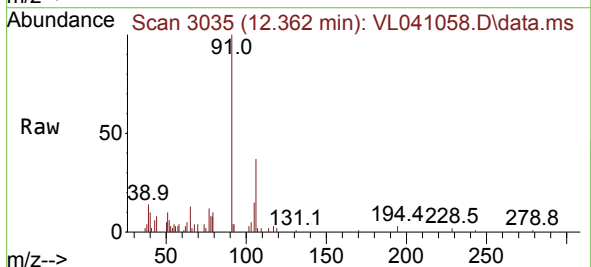
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

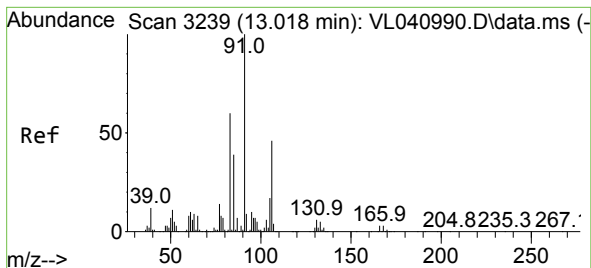
Tgt Ion: 91 Resp: 8123
Ion Ratio Lower Upper
91 100
106 41.7 24.8 37.2#



#59
m/p-Xylene
Concen: 0.050 ppbv
RT: 12.362 min Scan# 3035
Delta R.T. 0.006 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion: 91 Resp: 15777
Ion Ratio Lower Upper
91 100
106 0.0 34.9 52.3#





#60

o-Xylene

Concen: 0.045 ppbv

RT: 13.056 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL041058.D

Acq: 9 Feb 2024 15:06

Instrument :

MSVOA_L

ClientSampleId :

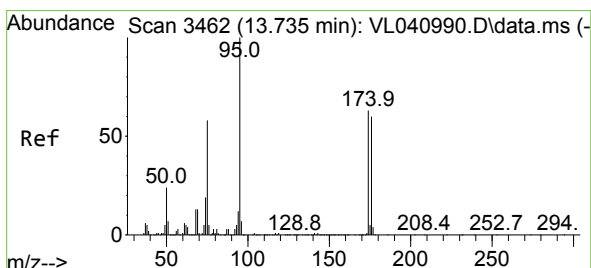
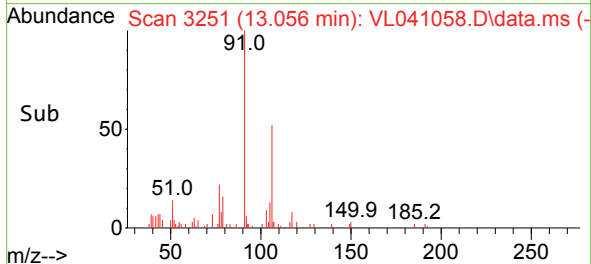
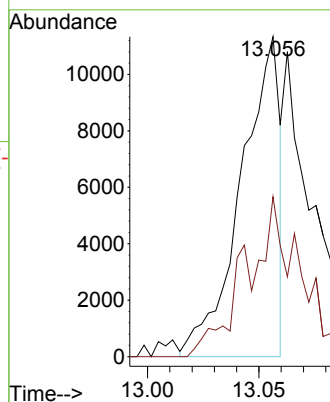
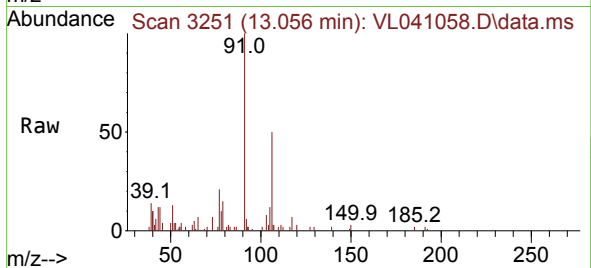
IA3DUP

Tgt Ion: 91 Resp: 13714

Ion Ratio Lower Upper

91 100

106 69.7 22.6 67.7#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.972 ppbv

RT: 13.773 min Scan# 3474

Delta R.T. 0.013 min

Lab File: VL041058.D

Acq: 9 Feb 2024 15:06

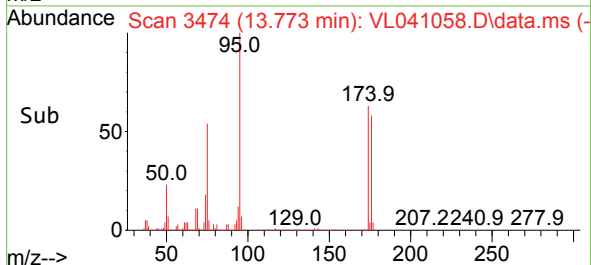
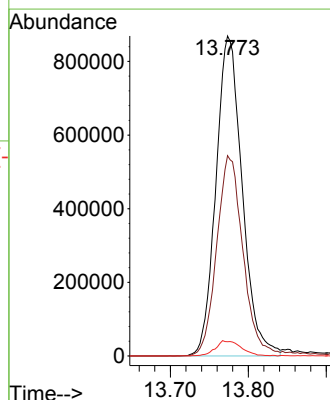
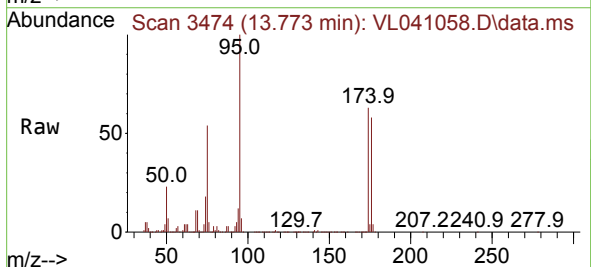
Tgt Ion: 95 Resp: 2035500

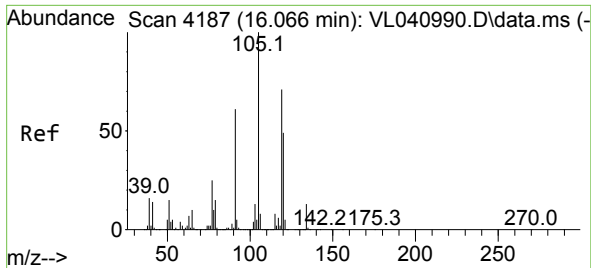
Ion Ratio Lower Upper

95 100

174 64.5 49.1 73.7

175 4.7 3.7 5.5

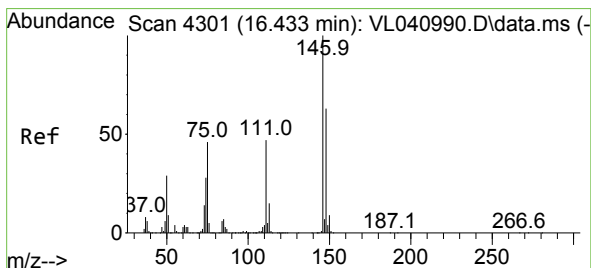
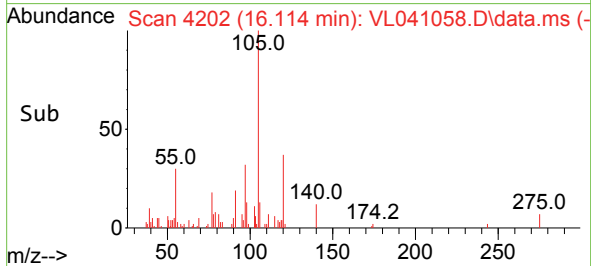
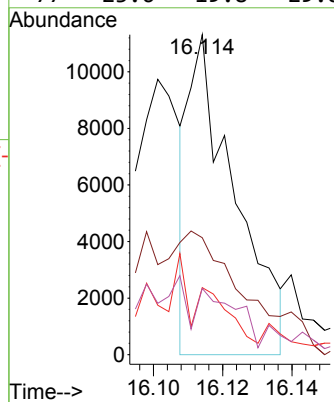
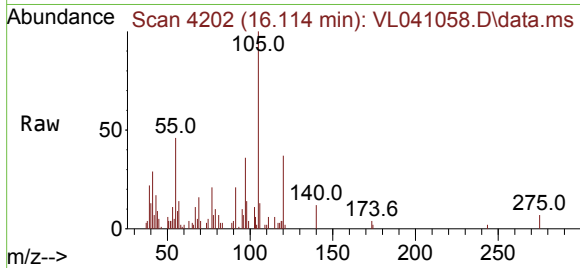




#74
1,2,4-Trimethylbenzene
Concen: 0.031 ppbv
RT: 16.114 min Scan# 4187
Delta R.T. 0.019 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

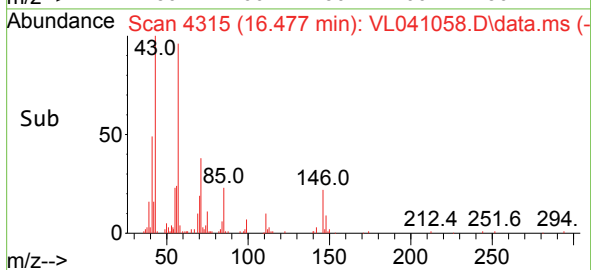
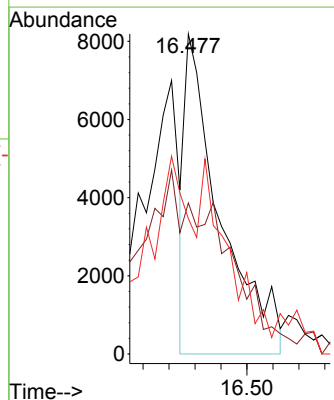
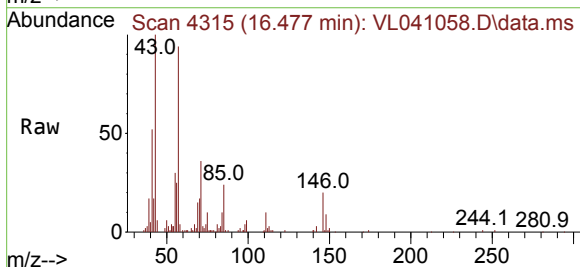
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

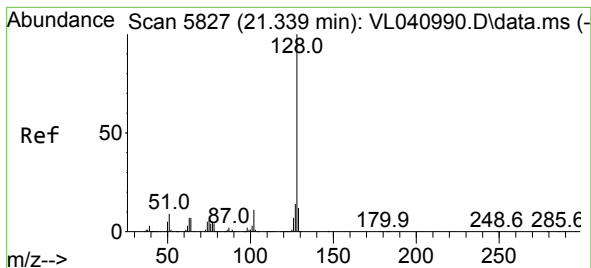
Tgt Ion:	105	Resp:	10416
Ion Ratio	Lower	Upper	
105	100		
120	26.6	39.3	58.9#
91	12.1	48.7	73.1#
77	23.6	19.8	29.8



#76
1,4-Dichlorobenzene
Concen: 0.040 ppbv
RT: 16.477 min Scan# 4315
Delta R.T. 0.019 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion:	146	Resp:	7701
Ion Ratio	Lower	Upper	
146	100		
111	0.0	24.0	72.0#
148	0.0	32.9	98.7#





#79

Naphthalene

Concen: 0.026 ppbv

RT: 21.400 min Scan# 5846

Delta R.T. 0.029 min

Lab File: VL041058.D

Acq: 9 Feb 2024 15:06

Instrument :

MSVOA_L

ClientSampleId :

IA3DUP

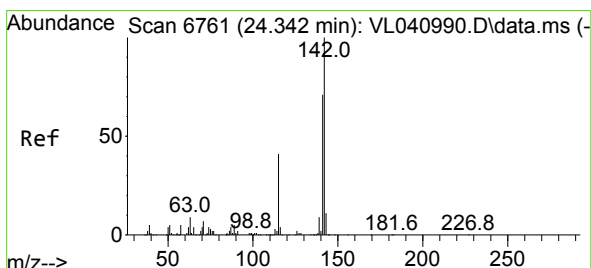
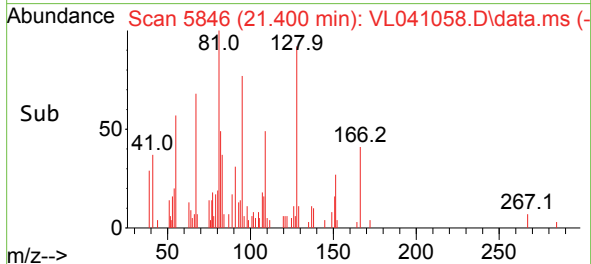
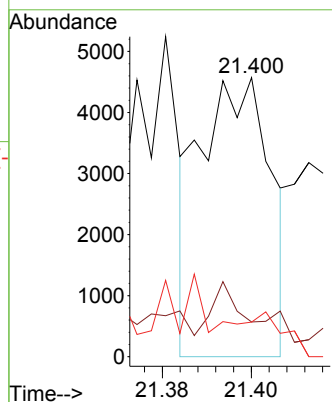
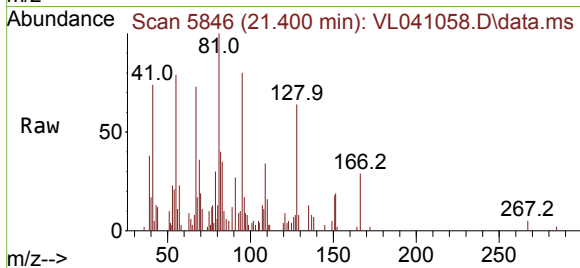
Tgt Ion:128 Resp: 4966

Ion Ratio Lower Upper

128 100

127 0.0 10.9 16.3#

129 10.2 9.3 13.9



#80

Naphthalene,2-methyl-

Concen: 0.025 ppbv

RT: 24.426 min Scan# 6787

Delta R.T. 0.061 min

Lab File: VL041058.D

Acq: 9 Feb 2024 15:06

Tgt Ion:142 Resp: 858

Ion Ratio Lower Upper

142 100

141 149.2 62.7 94.1#

115 0.0 34.0 51.0#

